

CLAIMS

1. A matrix band, **characterized** in that it consists essentially of fibers and a matrix, at least a portion of said matrix being at least partially uncured.
2. Matrix band according to claim 1, **characterized** in that a portion of said matrix
5 is in a cured form.
3. Matrix band according to claim 1 or 2, **characterized** in that said matrix is selected from the group consisting of methyl methacrylate, hydroxyethyl methacrylate, urethan dimethacrylate, triethylene glycol dimethacrylate, 2,2-bis(4-(2-hydroxy-3-methacryloxy)phenyl)propane, polymethyl methacrylate, starburst methacrylated
10 polyesters, hyperbranched methacrylated polyesters and mixtures thereof.
4. Matrix band according to any of the preceding claims, **characterized** in that said fibers are selected from the group consisting of inert glass fibers, bioactive glass fibers, silica fibers, quartz fibers, ceramic fibers, carbon/graphite fibers, aramid fibers, ceramic fibers, poly(p-phenylene-2,6-benzobisoxazole) fibers, poly(2,6-diimidazo(4,5-
15 b4',5'-e)pyridinylene-1,4(2,5-dihydro)phenylene fibers, polyolefin fibers, fibers prepared from copolymers of olefins, polyester fibers, polyamide fibers, polyacrylic fibers, sol-gel processed silica fibers, collagen fibers, cellulose fibers, modified cellulose fibers and mixtures thereof.
5. Matrix band according to any of the preceding claims, **characterized** in that
20 said fibers are in the form of continuous fibers, chopped fibers, mat, sheet or mixtures thereof, and in that they are oriented in one, two, three or four directions, randomly or mixtures thereof.
6. Matrix band according to any of the preceding claims, **characterized** in that it further comprises particulate filler material.
- 25 7. Matrix band according to claim 6, **characterized** in that said particulate filler material is selected from the group consisting of inert glass, bioactive glass, metal oxides, ceramics, polymers and mixtures thereof.
8. A dental restoration kit comprising a matrix band according to any of the claims 1-7, a restorative dental composite and an adhesive.

9. Kit according to claim 8, **characterized** in that it further comprises an applicator device.
10. Kit according to claim 8 or 9, **characterized** in that said matrix band is pre-shaped in the form of a dental restoration, a dental crown or a dental bridge.
- 5 11. A prepreg comprising fibers and a matrix, at least a portion of said matrix being at least partially uncured, for use as a dental matrix band.
12. Use of a matrix band according to any of the claims 1-7 for the manufacturing of a dental restoration, a dental bridge or a dental crown.
- 10 13. Use according to claim 12, **characterized** in that said matrix band forms an integral part of the finished dental restoration, dental bridge or dental crown.
14. Use of a matrix band according to any of the claims 1-7 in dental applications.
15. Use according to claim 14, **characterized** in that said application is selected from dental restoration, dental bridge, dental crown and endodontic treatment.